Annual General Meeting

The Institution of Structural Engineers
London, 2nd April 2019

www.cibse.org/sfe
Agenda

- Quorum: Minimum of 10 Corporate Members
- Approval of minutes 2017 AGM
- Membership & Education
- Technical Committee
- Regions & Events
- SFE Web site
- Routes to Chartership
- SFE Competition
- SFE Board

Society of Façade Engineering
Agenda

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CHAIRMAN'S REPORT

Technical Committee

Regions & Events

SFE Competition

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SFE Web site

Routes to Chartership

SFE Board
Chairman’s Report

Is Façade Engineering on the map?
Chairman’s Report

Fire Committee

• Response to Grenfell Tower Fire
• Spotlight on Façade Engineering
• Ongoing Contribution
Chairman’s Report

Reconnect with ...
Chairman’s Report

We Need you to...
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Technical Committee

- Specialist equipment loan
- Collaborating with external specialist working groups
- Fire Safety working group
- Collaboration with CWCT
- Academic journal publications
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Technical Events 2018-19

**Fire Engineering the Facade**
Speaker - Gary Lees
Venue: ALUK Design Studio, Henry Th. 5-11 Worship St, London

**Monitoring and sun facades using drone**
Speakers - Amy Cheeseman, Wallock Hannah Wharton, Wallock
Venue: ALUK Design Studio, Henry Th. 5-11 Worship St, London

**Avoiding movement joints in stone**
Speakers - David Wootton, Cara Barratt, Mario SFW Potter, Mark
Venue: Schuco Showroom, 153 Great Portland St, London

**Fire and Facades: an update**
Speakers - Martin Kealy, MKA FIRE David Metcalfe, SFE – Chair of Fire committee & CWCT Saverio Pasello, SFE – Chair
Venue: Blucifer, 47-58 Berwick Street, London W1U 3PS

The event is £10
SFE Fellows, Members, Associates & Students are FREE
Book tickets via www.cibee.org.uk
City Walks

SFE City Walk and Lecture
The 2017 Society of Facade Engineering
around London's Kings Cross
The walk is preceded by a talk on The Francis Crick Institute

Speaker
Imros van Leersum - Schwebel Group
"Closed Cavity Facades at The Francis Crick Institute"

Date
Tuesday 27th June 4.30pm, walk concluding by 6pm
A followed by networking time in a local pub

Venue
Hoare Lea, Western Transit Shed, 12-13 Stable Street, London, N1C 4AB

Booking
You must book a place for this event
There will be no entry on the day if you have not booked
Places are limited so please hurry
Please email rebecca.dawson@patrickryanassociates.com
This event is open to all but preference is given to Society members

SFE City Walk & Lecture 2018
The Society of Facade Engineering
The walk is preceded by a talk on
The Refurbishment of The Bower, Old Street

Speakers: Pritesh Patel, AHMM
Anni Dode, Patrick Ryan Associates

Venue: ALUK Design Studio, Henry Thomas House, 5-11 Worship St, London EC2A 2BH

Wednesday 25th July, 5pm
refreshments from 4.30pm, concluding at 8pm
& followed by networking time in a local pub

The event price is £10
SFE Fellows, Members, Associates & Students are FREE
Book tickets via www.cibse.org/sfe
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SFE Competition 2018

THE GLASS SUPPER 2018
Where Big Names Come Together

6th DECEMBER 2018, THE ROUNDHOUSE, CAMDEN, LONDON

www.glasssupperevents.com
CIBSE Journal supporting the SFE

- Call for entry for Façade of the Year competition.
- Announcement of the Façade of the Year winners.
OUTWARD LOOKING

The design of the jaw-dropping Morpheus Hotel in Macau has a 60-storey, free-form exoskeleton that would not have been possible without the skill of the façade engineers. Andy Pearlake talks to Buro Happold Engineering about the 3D façade systems needed to realise the striking design.

Zaha Hadid Architects’ Morpheus Hotel in China

Even before the iconic tower, with its iconic façade, had opened its doors to visitors, Buro Happold was involved in the design of the façade systems. The hotel’s unique aesthetic required a strong understanding of the structural and technical challenges involved.

Design parameters

The façade is a highly engineered structure incorporating 34 façade systems, each designed to address the challenges posed by the geometry of the building. The systems include sunshades, glazing, and ventilation units.

Servicing the Morpheus

With the façade, the heating and cooling systems are integrated with the structural design. The building is equipped with a centralised energy management system (CEMS) that controls the temperature and humidity levels within the rooms. The air is supplied through ducts and fans, and the cooling system is linked to the CEMS to ensure optimal performance.

The building’s geometry was so complex it forced us to change the way we designed.

The façade’s complex geometry required innovative solutions to ensure the building’s structural integrity. The design team worked closely with the architects to develop a system that could handle the building’s unique form and function. The result is a façade that not only looks stunning but also performs efficiently.

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3. Membership & Education
4. Routes to Chartership
5. SFE Board
## Membership

<table>
<thead>
<tr>
<th></th>
<th>SFE Honorary Fellow</th>
<th>SFE Fellow</th>
<th>SFE Associate</th>
<th>SFE Member</th>
<th>SFE Student</th>
<th>SFE Affiliate</th>
<th>Grand Total</th>
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<tbody>
<tr>
<td>Mar 2019</td>
<td>3</td>
<td>40</td>
<td>87</td>
<td>110</td>
<td>703</td>
<td>732</td>
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<td>35</td>
<td>69</td>
<td>96</td>
<td>549</td>
<td>608</td>
<td>1360</td>
</tr>
</tbody>
</table>

Gender balance 14%/86% F/M
Education

- Last 12 Students at University of Bath to graduate Dec 2019.

- UWE Cohorts:
  - 2017/2018 - 7FT/22PT, 4F/25M.
  - 2018/2019 - 8FT/28PT, 6F/30M
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Membership & Education

SFE Board
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About us

The Student Finance England Practitioners’ website has been developed specifically for those working in the education sector. This site gives information about the products and services available to prospective or in-study students based in England across further, higher or postgraduate level industries.

On this site you’ll find:
- Information about the products and services we offer
- The supporting materials we create to help you and the students you advise
- Links to student finance policy documents for current and previous academic years
- Contact information to help answer specific or complex questions
- News and updates and articles to keep you up-to-date with what’s happening in student finance

Due to the number of potential circumstances that can apply to individual students we can’t provide detailed explanations for each on this site. If you’re faced with a complex question about a student’s eligibility you should contact us directly.

Students should be directed towards www.gov.uk/studentfinance or our Student Finance Zone at www.thecoldeststream.co.uk to find out more about the products and services offered by Student Finance England.

Get in touch

Student Finance practitioners can contact us by phone for help, information and support.

Student Finance England

Student Finance England (SFE) is a partnership between the Department for Education and Student Loans Company to provide financial support for students entering further, higher and postgraduate education in the United Kingdom, on behalf of the UK government. We offer financial support to students and learners during their studies including loans, grants and bursaries.

There is also additional funding available for eligible students with special circumstances, including:
- Students with children or adult dependants
- Students with a disability or additional needs
- Students with specific learning difficulties such as dyslexia or dyspraxia

Student Loans Company

Student Loans Company (SLC) is a not-for-profit, government-owned, organisation set up in 1989 to provide loans and grants to students in universities and colleges in the UK. SLC works with the following to provide student support in the UK:
- Student Finance England (SFE)
- Student Finance Wales (SWW)
- The Student Awards Agency for Scotland (SAAS)
- Ofsted Education Authority in Northern Ireland (Ghn)
- Higher Education Institutions
- High Revenue & Customs (HMRC)

Students studying in England apply through Student Finance England, however if they are required to repay any student finance they’ll make repayments to Student Loans Company.

You can find out more about Student Loans Company at www.slc.co.uk
You can find out more about repayment at www.slc.co.uk/repayment
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Routes to Chartership

**SFE Member**

**Experience**
- BSc/BEng Civil Engineering
- BSc/BEng Struct. Engineering
- BSc Mech. Engineering
- BSc Construction Management
- MEng Civil & Architecture
- BSc Hons Architecture
- Other

**Qualification(s)**
- MSc Façade Engineering (JBM)
- MSc Civil Engineering
- MSc Structural Engineering

**Institutional Bodies**
- ICE
- IStructE
- CIBSE
- CIOB
- ARB
- RIBA

Varies depending on which body you apply to.
Chartership Case studies

BSc Computer aided design and Construction
MSc Façade Engineering, (Bath)
6 years as designer at a façade contractor
10 years at façade engineering consultancy

BSc Engineering and Architecture
MSc Façade Engineering, (Bath)
4 years as Architect and Civil Engineer
7 years at façade engineering consultancy

CIBSE require:
7 years’ experience demonstrating a range of competencies
management, commercial etc. not just technical!

Bachelor’s & Master’s degrees not on engineering council list of accepted courses so qualification assessment required.

Why CIBSE?
No exam, xxxx

CIBSE Standard Route

Engineering Practice Report:
17 key Questions
4 – 5000 words (CIBSE workshops to assist writing report)

- Update cv
- Company organisational chart
- A4 short/med/long term development plan

Grade:
MCIBSE or CEng dependent on interview.
(20mins + 20mins questions)

If successful, certificate issued in 2–3 months.
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SFE Board
University of Bath & CWCT / UK: MSc Façade Engineering.
MEng Civil and Architectural Engineering with Façade Engineering option.

TU Delft / The Netherlands: Master Building Technology with International façade Master option.

Universidad del Pais Vasco - San Sebastian / Spain: Master de arquitectura en fachadas ligeras.

Hochschule Luzern / Switzerland: BSc Civil Engineering with optional building envelopes module.
MSc Engineering with a specialisation in building envelopes.

Hochschule OWL / Germany: International Master of Facade Design and Construction.

Politecnico di Milano: Dipartimento Building Environment Science & Technology (BEST)
Future Envelope Conferences
Journal of Façade Design & Engineering
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SFE Board 2018/19

Saverio Pasetto
Chair
Façade Technical Director, Skanska
MSc, FSFE

Graham Dodd
Vice-Chair
B Eng, ARUP Fellow
FSFE

Dr Patrick Ryan
Events
Patrick Ryan Associates Ltd
BSc (Hons), PhD
FSFE

Graham Fairley
Secretary
BA (Hons) MA (RCA)
FSFE

Will Stevens
Chair Technical Committee
Director,
Interface Façade Engineering Ltd
BSc, BArch, RIBA, FSFE

David Watabiki
Regions
Associate Director,
Wintech Ltd.
BSc, MSc, MSFE.

Russell Cole
Treasurer
Associate Director
ARUP Façade Group
MEng, MSFE

Graham Hackley
SFE Competition
Director,
Century Facades
BSc, MSc, FSFE

David Metcalfe
Education
Director
CWCT
MSc, MSFE

Dr Steve Lo
Membership
DoS MSc Façade Engineering
University of Bath
MSc, PhD, HFSFE
Honorary members

Rebecca Dawson
Patrick Ryan Associates

Carolyn Ansted
Interface facades
Winner of FACADE2018 Refurbishment of the Year

Facade of University of Leicester Engineering Building

Including the The Society of Facade Engineering AGM 2019

**Venue:** IStructE, 47-58 Bastwick Street, London, EC1V 3PS

**Tuesday 2nd April**

Refreshments from 17:30, the event finishes at 19:30

**Speakers** - Thomas Pearson (Arup)
Emily Sutton (Arup)